



**CITY OF ROANOKE, VIRGINIA**  
**OFFICE OF THE CITY ENGINEER**

215 CHURCH AVE. SW, ROOM 350  
ROANOKE, VIRGINIA 24011

FY 15 - CURB | GUTTER | SIDEWALK  
SITE NO. 12 - VIRGINIA AVE. NW (TM#2760810) &  
SITE NO. 19 - VIRGINIA AVE. NW (TM#2760809)

C:\Users\DAHLZ\GOOGLE DRIVE\02 PROJECTS\1166400 - ROANOKE SIDEWALKS\WORKING DRAWINGS\ROANOKE SIDEWALKS\SHEETS\CONSTRUCTION\C-CIVIL\12.100 GENERAL NOTES.DWG LAYOUT: 8.100 GENERAL NOTES.DWG DIMSCALE: 1/8"=20'-0"

GENERAL CONSTRUCTION NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL CONDITIONS, MATERIALS, DIMENSIONS LOCATIONS AND EXISTING ELEMENTS TO REMAIN IN THE FIELD BEFORE PROCEEDINGS WITH ANY WORK. IF CONDITIONS VARY FROM WHAT IS REPRESENTED IN THE DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.
2. VEHICULAR AND PEDESTRIAN TRAFFIC MUST BE MAINTAINED AT ALL TIMES. PROVIDE ADEQUATE PROTECTION FOR THE EXISTING BUILDINGS, BUILDING OCCUPANTS, VEHICLES AND PEDESTRIANS AT ALL TIMES IN ACCORDANCE WITH OSHA AND ALL APPLICABLE STATE AND LOCAL CODES.
3. WALKING PATHS ADJACENT TO THE WORK AREAS WILL REMAIN IN USE DURING THE WORK. MATERIALS AND EQUIPMENT SHALL BE STORED IN APPROVED AREAS TO PREVENT IMPACTS ON VEHICLES AND PEDESTRIANS. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR MEASURES TAKEN TO ENSURE VEHICULAR AND PEDESTRIAN SAFETY THROUGH THE ENTIRE DURATION OF THE WORK. SAFETY IS PARAMOUNT.
4. EQUIPMENT AND MATERIALS SHALL BE STORED IN DESIGNATED AREAS AND SHALL NOT ENCUMBER THE OWNER'S OPERATIONS, SURROUNDING RIGHT OF WAY, OR ADJOINING GROUNDS.
5. ALL WORK AREAS SHALL BE CLEANED DAILY.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF BUILDINGS ADJACENT TO WORK AREAS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS OF DAMAGES RESULTING FROM CONSTRUCTION ACTIVITIES.
7. SECTION CUTS AND DETAIL CALLOUTS INDICATED IN THE DRAWINGS ARE TYPICAL FOR THE PROJECT. THEY ARE TO BE CONSIDERED TYPICAL FOR SIMILAR CONDITIONS AND HAVE NOT BEEN SHOWN EVERYWHERE THEY APPLY.
8. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY.
9. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL CONSTRUCTION.
10. SYMBOLS IN THE DRAWINGS ARE NOT TO SCALE.
11. DO NOT START INSTALLATION OF WORK UNTIL POTENTIAL CONFLICTS HAVE BEEN IDENTIFIED AND ADDRESSED.
12. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL DAMAGE TO THE EXISTING BUILDINGS AND ADJACENT GROUNDS AND PROPERTY CAUSE BY THE CARELESSNESS OR NEGLECT OF HIS WORKMEN. DAMAGE TO PORTIONS OF THE PROPERTY NOT SUBJECT TO WORK UNDER THE CONTRACT SHALL BE REPAIRED TO THE FULL SATISFACTION OF THE OWNER AND ENGINEER, AT THE CONTRACTOR'S EXPENSE.
13. PROTECTION OF THE WORK: PROTECT EFFECTIVELY ALL MATERIALS AND EQUIPMENT DURING THE ENTIRE PERIOD OF CONSTRUCTION. REPLACE MATERIALS AND EQUIPMENT DAMAGED, LOST OR STOLEN WITHOUT ADDITIONAL COST TO THE OWNER.
14. PROTECT EXISTING MATERIALS DURING INSTALLATION OF TEMPORARY PROTECTION AND CONSTRUCTION. DO NOT DEFACE OR REMOVE EXISTING MATERIALS IF INTENDED TO STAY. ATTACHMENTS OF TEMPORARY PROTECTION TO EXISTING CONSTRUCTION SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
15. OBTAIN ENGINEER REVIEW AND WRITTEN APPROVAL IN THE FORM OF A CONSTRUCTION CHANGE DIRECTIVE OR SUPPLEMENTAL INSTRUCTION BEFORE MAKING CHANGES OR ADDITIONS TO CONSTRUCTION OR REMOVING MATERIALS THAT WERE INTENDED TO REMAIN.
16. CONTRACTOR SHALL PROVIDE AND MAINTAIN ADEQUATE FIRE PROTECTION IN THE FORM OF FIRE EXTINGUISHER OR OTHER EFFECTIVE MEANS OF EXTINGUISHING FIRE, READY FOR INSTANT USE, DISTRIBUTED AROUND THE PROJECT AND IN AND ABOUT TEMPORARY, INFLAMMABLE STRUCTURES DURING CONSTRUCTION OF WORK. EXISTING FIRE HOSE CONNECTIONS SHALL BE ACCESSIBLE AT ALL TIMES BY FIRE DEPARTMENT PERSONNEL. MATERIAL SAND DEBRIS SHALL NOT BE STORED IN FRONT OF THE CONNECTION, THUS PREVENTING ACCESS. THE CONTRACTOR SHALL COORDINATE ACCESS PROCEDURES WITH THE FIRE MARSHALL.
17. GASOLINE AND OTHER FLAMMABLE LIQUIDS SHALL BE STORED AND DISPENSED FROM UL LISTED SAFETY CONTAINERS IN CONFORMANCE WITH THE NATIONAL BOARD OF FIRE UNDERWRITERS' RECOMMENDATIONS.
18. CONTRACTOR SHALL CALL MISS UTILITY AT 1-800-552-7001 BEFORE CONSTRUCTION COMMENCES.

GENERAL LAYOUT NOTES:

1. ALL ROADWAY DIMENSIONS ARE TO FACE OF CURB. ALL FILLET RADII SHALL BE MEASURED TO FACE OF CURB.
2. ALL CURVE DATA PERTAINS TO THE ALIGNMENT AS DEFINE IN THE DRAWINGS.
3. ALL STORM DRAIN DIMENSIONS ARE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE OR FROM CENTER OF STRUCTURE TO END OF FLARED END SECTION.
4. ANY EXISTING DRIVEWAY WIDTH THAT DOES NOT CONFORM TO THE ZONING ORDINANCE SHALL NOT BE INCREASED.

GRADING, PAVING AND DRAINAGE NOTES:

1. CONTRACTOR SHALL CONSTRUCT AND MAINTAIN APPROPRIATE MINIMUM STANDARD PROVISIONS IN ACCORDANCE WITH THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK TO PREVENT SOIL FROM BEING ERODED FROM SITE INTO ADJACENT DRAINAGE SYSTEMS, DITCHES, OR WATERCOURSES. ANY MATERIAL THAT IS SO ERODED SHALL BE PROMPTLY REMOVED. SOIL SEDIMENT AND EROSION CONTROL TO BE UTILIZED IN ACCORDANCE WITH MINIMUM CRITERIA OF VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK.
2. PAVEMENT REPAIR SHALL CONSIST OF MILLING AND REPAVING 10' FROM THE EDGE OF THE GUTTER PAN.
3. GRADING AND PAVING TO BE CONSTRUCTED IN ACCORDANCE WITH THE 2007 VDOT "ROAD & BRIDGE SPECIFICATIONS".
4. ALL SIDEWALKS SHALL HAVE TRANSVERSE DUMMY JOINTS AT 5-FOOT INTERVALS; 1/2-INCH TRANSVERSE EXPANSION JOINTS SPACED AT 30-FOOT INTERVALS. DUMMY JOINTS SHALL BE 1 INCH DEEP BY 3/16 INCH WIDE, USING A 1/2-INCH RADIUS. EXPANSION JOINTS ARE TO BE CONSTRUCTED USING EXPANSION MATERIAL PLACED 2 INCH BELOW FINISHED SURFACE. ROUND EDGES OF CONCRETE WITH 1/2-INCH RADIUS.
5. CURB CUT RAMPS SHALL BE IN ACCORDANCE WITH UNIFORM FEDERAL ACCESSIBILITY STANDARDS.
6. PAVEMENT MARKINGS AND PAINT LINES SHALL BE TYPE A AS DEFINED BY THE 2007 VDOT ROAD AND BRIDGE SPECIFICATIONS, AND PLACED AS INDICATED IN THE DRAWINGS. PAINT SHALL BE APPLIED TO DRY AND THOROUGHLY CLEAN SURFACE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
7. FINISH CONTOURS INDICATE SLOPE OF LAND AND DIRECTION OF DRAINAGE, AS WELL AS ELEVATION.
8. ALL TRANSITIONS IN GRADING SHALL BE SMOOTH ROUNDED CURVES.
9. DRAINAGE COURSES ACROSS GRASSSED AREAS SHALL BE ROUNDED SWALES AND NOT CUT DITCHES WITH STRAIGHT SLOPING SIDES, UNLESS NOTED OTHERWISE.
10. FINISHED GRADE SHALL SLOPE UNIFORMLY BETWEEN CONTOURS AND/OR SPOT ELEVATIONS SHOWN.

EXISTING UTILITY NOTES:

1. THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES IN THE FIELD PRIOR TO COMMENCING CONSTRUCTION. LOCATIONS AND SIZE OF EXISTING UTILITIES WERE LOCATED USING ABOVE GRADE FEATURES AND USING THE BEST AVAILABLE RECORDS. THE CONTRACTOR SHALL VERIFY THEIR LOCATION IN THE FIELD BEFORE CONSTRUCTION COMMENCES. NO GUARANTEE IS MADE THAT UTILITIES SHOWN COMPRISE ALL UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED.
2. ALL EXISTING UTILITIES SHALL REMAIN IN PLACE, UNLESS OTHERWISE NOTED ON THE PLANS. THE CONTRACTOR SHALL CARRY ON HIS WORK AROUND SUCH UTILITIES AT HIS OWN RISK. ALL DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.
3. THE REMOVAL AND RELOCATION OF ALL UTILITIES AND APPURTENANCES WILL BE AT THE RISK OF THE CONTRACTOR. THESE INCLUDE, BUT ARE NOT LIMITED TO, POWER, SEWER, WATER, GAS, TELEPHONE, COMMUNICATION, CABLE, FIBER OPTICS, ETC. REMOVAL AND RELOCATION OF PRIVATE UTILITIES SHALL BE COORDINATED WITH THE UTILITY OWNER.

PROPOSED UTILITY NOTES:

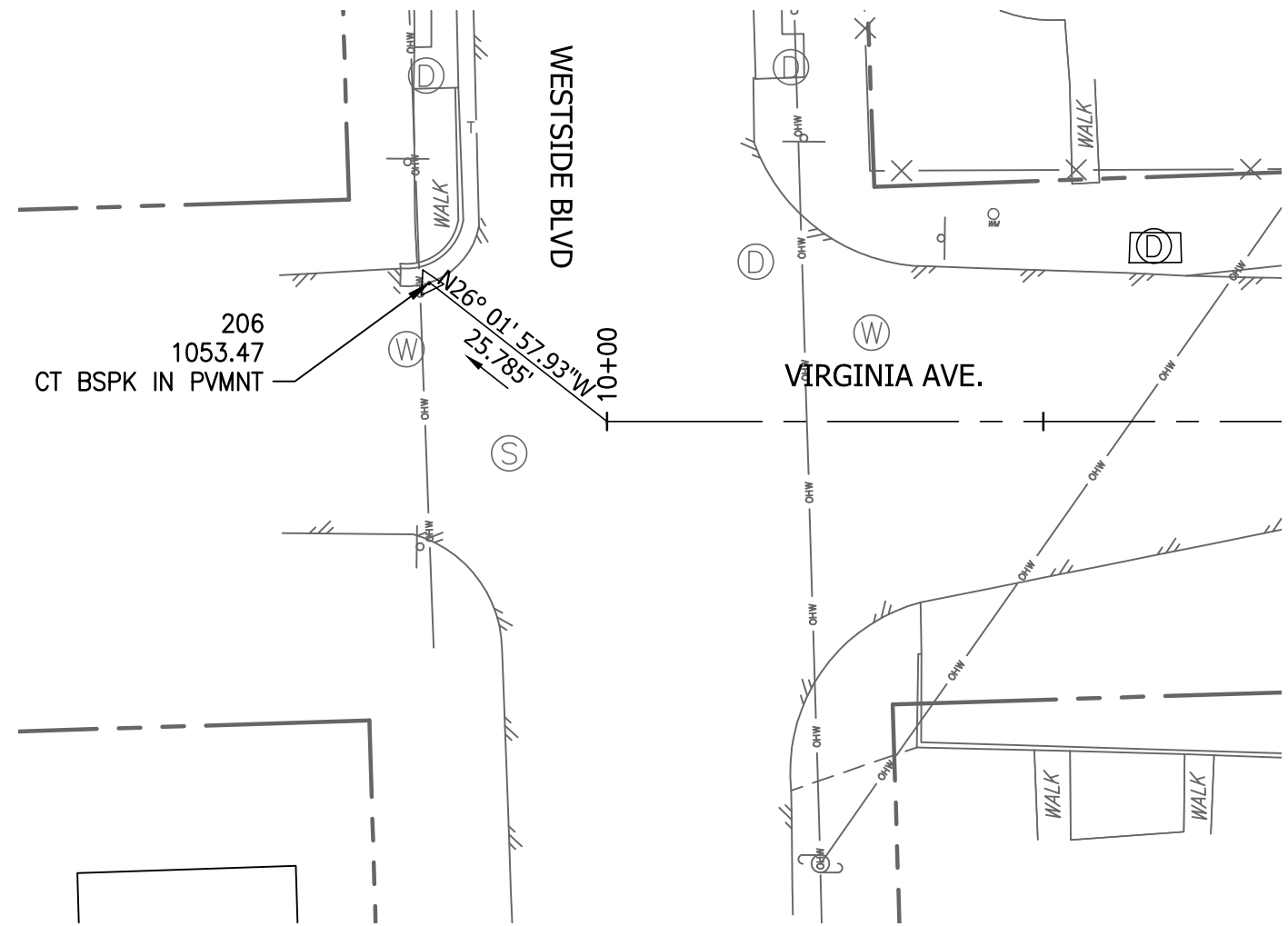
1. ALL UTILITY INSTALLATION WORK SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL LAWS, REGULATIONS, AND ORDINANCES. WATER AND SEWER INSTALLATION SHALL BE IN ACCORDANCE WITH VIRGINIA DEPARTMENT OF HEALTH REGULATIONS, VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY, AND ANY LOCAL REGULATIONS OR ORDINANCES.
2. THE CONTRACTOR SHALL RELOCATE WATER METERS AND LATERALS, AS REQUESTED, SUBJECT TO INSPECTION BY WESTERN VIRGINIA WATER AUTHORITY.
3. ALL UTILITY TRENCHING EARTHWORK SHALL BE IN ACCORDANCE WITH THE VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE SPECIFICATIONS (VDOT RBS&S) EXCEPT WHERE OTHERWISE INDICATED ON THE TRENCHING DETAILS INCLUDED IN THESE DOCUMENTS.
4. CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL, DETAILED AND TO SCALE, PROFILE SHOP DRAWINGS FOR WATER DISTRIBUTION PIPING, SEWER PIPING, AND STORM DRAINAGE PIPING THAT INCLUDE LOCATIONS OF EXISTING AND NEW PIPES CROSSING THE MAIN BEING PROFILED. INCLUDE ALL FITTINGS, MANHOLES, AND/OR STORM INLET LOCATIONS ON THE SHOP DRAWINGS. INDICATE THE CLEARANCE BETWEEN PIPES AT UTILITY CROSSINGS.
5. CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL PRODUCT INFORMATION DATA SHEETS FOR ALL PIPING AND APPURTENANCES FOR WATER DISTRIBUTION PIPING, SANITARY SEWER PIPING, AND STORM DRAINAGE PIPING TO BE USED IN THE PROJECT.
6. CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL SHOP DRAWINGS FOR ALL SEWER MANHOLES, STORM DRAIN MANHOLES AND STORM DRAIN INLETS. SHOP DRAWINGS SHALL INDICATE OVERALL HEIGHT OF THE STRUCTURE, INVERTS OF ALL PIPES ENTERING THE STRUCTURE, ANGLE BETWEEN PIPES ENTERING THE STRUCTURE, FRAME AND COVER (OR GRATE) PRODUCT INFORMATION INCLUDING DIMENSIONS, STRUCTURE WALL AND BASE THICKNESS, AND REQUIRED INTERIOR COATINGS.

SUGGESTED CONSTRUCTION SEQUENCING:

1. INSTALL SILT FENCE AS INDICATED IN THE DRAWINGS.
2. INSTALL STORMWATER INLET PROTECTION AROUND EXISTING DRAINAGE STRUCTURES.
3. PROTECT PERMANENT VEGETATION FOR THE DURATION OF THE PROJECT.
4. DEMOLISH EXISTING ITEMS MARKED FOR DEMOLITION AS INDICATED IN THE DRAWINGS.
5. RELOCATE EXISTING UTILITIES ARE REQUIRED AND OR SHOWN IN THE DRAWINGS.
6. CONSTRUCT NEW STORM STRUCTURES, IF APPLICABLE, STARTING AT THE DOWNSTREAM TERMINUS OR TIE-IN.
7. BACKFILL EXCAVATION AND TRENCH AREA.
8. INSTALL NEW CURB, GUTTER AND OR SIDEWALK AS INDICATED IN THE DRAWINGS, AS APPLICABLE.
9. FOR GRASSY AREAS: INSTALL PERMANENT SEEDING AND MULCH. STABILIZE ALL DISTURBED AREAS.
10. FOR GRAVEL AREAS: RESTORE GRAVEL AFTER TRENCHING AND EXCAVATION OPERATIONS ARE COMPLETE.
11. REPAIR ANY INADVERTENT EROSION AND REMOVE ANY INADVERTENT SEDIMENTATION.
12. DRESS AND OVER SEED ALL DISTURBED AREAS AS NECESSARY TO AFFECT PERMANENT VEGETATIVE COVER.
13. STABILIZE ALL REMAINING DISTURBED AREAS WITH TOPSOIL, SEED AND STRAW ONCE WORK IS COMPLETE.
14. AFTER FINAL SITE STABILIZATION AND APPROVAL FROM THE APPROPRIATE EROSION AND SEDIMENT CONTROL AUTHORITY, THE REMOVE SILT FENCE, INLET PROTECTION AND OTHER STABILIZATION MEASURES.

ESTIMATED QUANTITIES:

Site No. 12 - Virginia Ave. NW						
Item	Quantity	Linear Feet	Width (ft)	Area (square feet)	Land Disturbance (YES or NO)	Disturbed Area (square feet)
Curb and Gutter (CG-2)	-	140	0.5	.70	NO	43
Curb and Gutter (CG-6)	-	490	2	980	YES	1490
Residential Entrance (CG-9B)	2	-	-	-	NO	
Curb Inlet (DI-3A)	1	-	-	-	NO	
Stormdrain Pipe (18" RCP)	-	46	-	-	NO	
Silt Fence	-	600	-	-	NO	
Asphalt Restoration	-	-	-	6663	NO	
Total Land Disturbance (SF)						1533

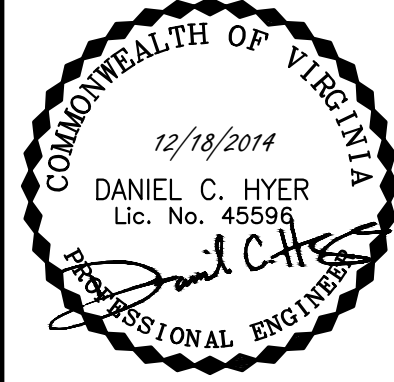


ALIGNMENT TIE-DOWN

SCALE: 1" = 20'

NOTE: SEE ATTACHED TOPO AND BOUNDARY SURVEY BY PARKER DESIGN GROUP FOR ADDITIONAL INFORMATION.

COPYRIGHT 2014 - LINE+GRADE, LLC



REVISIONS					DATE
NO.					

CURB, GUTTER & SIDEWALK IMPROVEMENTS

CITY OF ROANOKE, VIRGINIA

SITE NO.12 & 19 - VIRGINIA AVENUE NW

GENERAL NOTES

LINE+GRADE  
CIVIL ENGINEERING

418 EAST MAIN STREET  
CHARLOTTESVILLE, VA 22902  
www.line-grade.com

DRAWN: ZQD

CHECKED: DCH

APPROVED: DCH

DATE: DECEMBER 18, 2014

L+G PROJ. NO: 11664.00

SHEET NUMBER:

12.100

SHEET -- OF --

## CITY OF ROANOKE, VIRGINIA

SITE NO.12 & 19 - VIRGINIA AVENUE NW

# PROPOSED SITE PLAN

418 EAST MAIN STREET  
ARLOTTESVILLE, VA 22902  
[www.line-grade.com](http://www.line-grade.com)

CHECKED: DCH

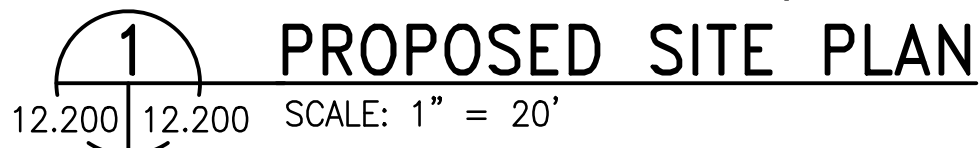
TE: DECEMBER 18, 2014

G PROJ. NO: 11664.00

SHEET NUMBER:

2.200

SHEET -- OF --



STORM STRUCTURE SCHEDULE	
STRUCTURE ID:	DETAILS:
12-1	VDOT DI-3A L6 RIM = 1051.85 INV(NW)= 1044.30 INV(E)= 1044.5

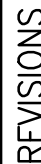


1. WORK IN THIS AREA IS TO BE PERFORMED PER THE CITY OF ROANOKE RIGHT-OF-WAY EXCAVATION AND RESTORATION STANDARDS.
2. PAVEMENT REPAIR SHALL REQUIRE MILLING AND REPAVING FOR A MINIMUM WIDTH OF 10' ADJACENT TO REPAIR.
3. CONTRACTOR SHALL MAINTAIN TWO-WAY TRAFFIC IN ACCORDANCE WITH VIRGINIA WORK AREA PROTECTION MANUAL OR AS INDICATED IN THESE DRAWINGS. STREET CLOSURES ARE NOT PERMITTED UNLESS AUTHORIZED BY THE CITY TRAFFIC ENGINEER.
4. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL PLAN TO TRAFFIC ENGINEERING PRIOR TO CONSTRUCTION.
5. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE UPON COMPLETION OF THE WORK.
6. CONTRACTOR SHALL BACKFILL TO THE TOP OF THE BACK OF CURB SUCH THAT THE ADJACENT LANDSCAPED AREA HAS A SURFACE FLUSH WITH THE TOP OF CURB.
7. CONTRACTOR SHALL SEED ALL AREAS BEHIND THE BACK OF CURB DISTURBED DURING CONSTRUCTION.
8. ALL EXCAVATED AREAS THAT ARE NOT TO BE PAVED SHALL BE SEEDED IN ACCORDANCE WITH THE CURRENT EROSION AND SEDIMENT CONTROL STANDARDS.
9. ADJUSTMENTS AND RELOCATION OF WATER METERS, WATER VALVES, SEWER MANHOLES AND CLEANOUTS SHALL BE DONE BY A CONTRACTOR WITH A WESTERN VIRGINIA WATER AUTHORITY INSPECTION, SEE DETAIL 3/8.206.
10. ALL WORK WITHIN THE CITY RIGHT-OF-WAY SHALL CONFORM TO THE CITY OF ROANOKE RIGHT-OF-WAY EXCAVATION AND RESTORATION STANDARDS.
11. CONTRACTOR SHALL REESTABLISH ALL EXISTING RESIDENTIAL AND COMMERCIAL ENTRANCES.
12. ALL WATER METERS TO BE RELOCATED OUTSIDE OF SIDEWALK.
13. ALL EXISTING SIGNS WITHIN THE LIMITS OF THE PROPOSED SIDEWALK SHALL BE RELOCATED OUTSIDE THE SIDEWALK.
14. SEE ATTACHED SURVEY SHEETS FOR UTILITY KEYNOTES.

$1'' = 2'$  

$1'' = 20'$  

 LIMITS OF ASPHALT RESTORATION



DATE \_\_\_\_\_

ON

**CURB, GUTTER & SIDEWALK IMPROVEMENTS**  
**CITY OF ROANOKE, VIRGINIA**

---

**SITE NO.12 & 19 – VIRGINIA AVENUE NW**  
**EROSION & SEDIMENT CONTROL DETAILS**

418 EAST MAIN STREET  
CHARLOTTESVILLE, VA 2290  
[www.line-grade.com](http://www.line-grade.com)

DRAWN: ZQI

CHECKED: \_\_\_\_\_ DCI

APPROVED: \_\_\_\_\_ DCI

DATE: DECEMBER 18, 201

L+G PROJ. NO: 11664.0

SHEET NUMBER:

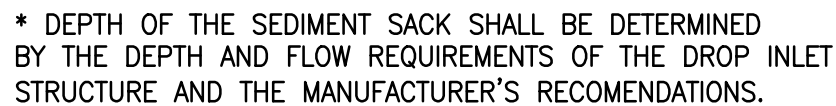
12.201

SHEET -- OF --



TABLE 3.33-C (Revised June 2003) PERMANENT SEEDING SPECIFICATIONS FOR APPALACHIAN/MOUNTAIN AREA			
LAND USE	SEED/ SPECIES	APPLICATION RATES	
Minimum Grass Lawn (Commercial or Residential)	Tall Fescue	90-100% 0-10%	
	Perennial Ryegrass/ Kentucky Bluegrass <sup>a</sup>	0-10% 0-10%	
		TOTAL: 200-250 lbs	
High-Maintenance Lawn	Minimum of three (3) up to five (5) varieties of Kentucky Bluegrass from approved list to use in Virginia <sup>b</sup>		TOTAL: 125 lbs.
	Tall Fescue	128 lbs	
General Slope (3:1 or less)	Red Top Grass or Creeping Red Fescue	20 lbs	
	Seasonal Nurse Crop <sup>c</sup>	20 lbs	
		TOTAL: 150 lbs	
Low-Maintenance Slope (Steeper than 3:1)	Tall Fescue <sup>d</sup>	108 lbs	
	Red Top Grass or Creeping Red Fescue	20 lbs	
	Seasonal Nurse Crop <sup>e</sup>	20 lbs	
	Crownvetch <sup>f</sup>	20 lbs	
		TOTAL: 150 lbs	
1 - When selecting varieties of turfgrass, use the Virginia Crop Improvement Association (VCIA) recommended turfgrass variety list. Quality seed will bear a label indicating that they are approved by VCIA. A current turfgrass variety list is available at the local County Extension Office through VCA at 804-746-4884 or at <a href="http://turfgrass.osu.vt.edu/edu/extension/publications/2.html">http://turfgrass.osu.vt.edu/edu/extension/publications/2.html</a>			
2 - Perennial Ryegrass will germinate faster and at lower soil temperatures than Tall Fescues, thereby providing cover and erosion resistance for seedbed.			
3 - Use seasonal nurse crop in accordance with seeding dates as stated below:			
	March, April - May 15 <sup>g</sup> .....	Annual Ryegrass	
	May 15 <sup>g</sup> - August 15 <sup>g</sup> .....	Foxtail Millet	
	August 15 <sup>g</sup> - September, October .....	Annual Ryegrass	
	November - February .....	Winter Ryegrass	
4 - All turbine seed must be properly inoculated. If Fescue is used, inoculate to 30 lbs/cu ft. If Fescue/ Lovingsgrass is used, include in any slope or low maintenance mixture during warm seeding periods, increase to 30-40 lbs/cu ft.			
<b>FERTILIZER &amp; LIME</b>			
• Apply 10-20-20 fertilizer at a rate of 500 lbs / acre (or 12 lbs / 1,000 sq. ft.)			
• Apply Pulverized Agricultural Lime at a rate of 2 tons/acre (or 90 lbs. / 1,000 sq. ft.)			
<b>NOTE:</b>			
a - Seed list is necessary to determine the actual amount of lime required to adjust the soil pH of site.			
b - Incorporate the lime and fertilizer into the top 4 - 6 inches of the soil by disk or by other means.			
c - When applying Soybean Available Nitrogen, use rates available in <i>Erosion &amp; Sediment Control Technical Bulletin #4</i> , 2000 Nutrient Management for Development Sites at <a href="http://www.ec.state.vt.us/soil/soil%20cons%20bulletins/">http://www.ec.state.vt.us/soil/soil%20cons%20bulletins/</a>			

3.05	SILT FENCE	(SF)	
3.07	STORM DRAIN INLET PROTECTION	(IP)	
3.31	TEMPORARY SEEDING	(TS)	
3.32	PERMANENT SEEDING	(PS)	
3.35	MULCHING	(MU)	
	LIMITS OF DISTURBANCE	(LOD)	



NOTE:

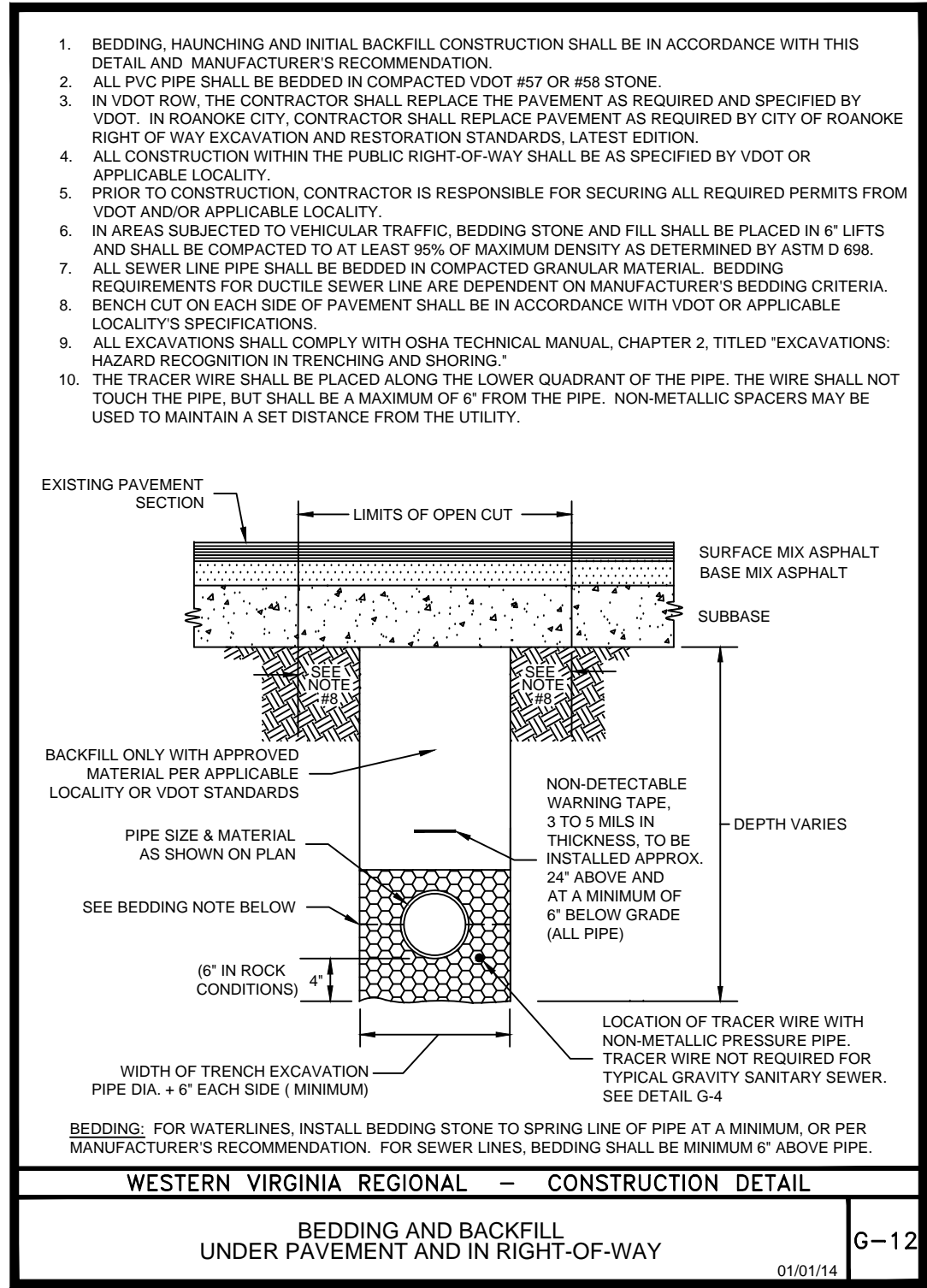
THE SEDIMENT SACK SHALL BE MANUFACTURED FROM A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS.

<u>PROPERTIES</u>	<u>UNITS</u>
GRAB TENSILE	265 LBS
STRENGTH GRAB	20%
TENSILE ELONGATION	135 LBS
PUNCTURE	420 PSI
MULLEN BURST	45 LBS
TRAPEZOID TEAR UV	90%
RESISTANCE	20 US SIEVE
APPARENT OPENING	200 GAL/MIN/SQ
SIZE	FT 1.5 SEC-1
FLOW RATE	
PERMITTIVITY	

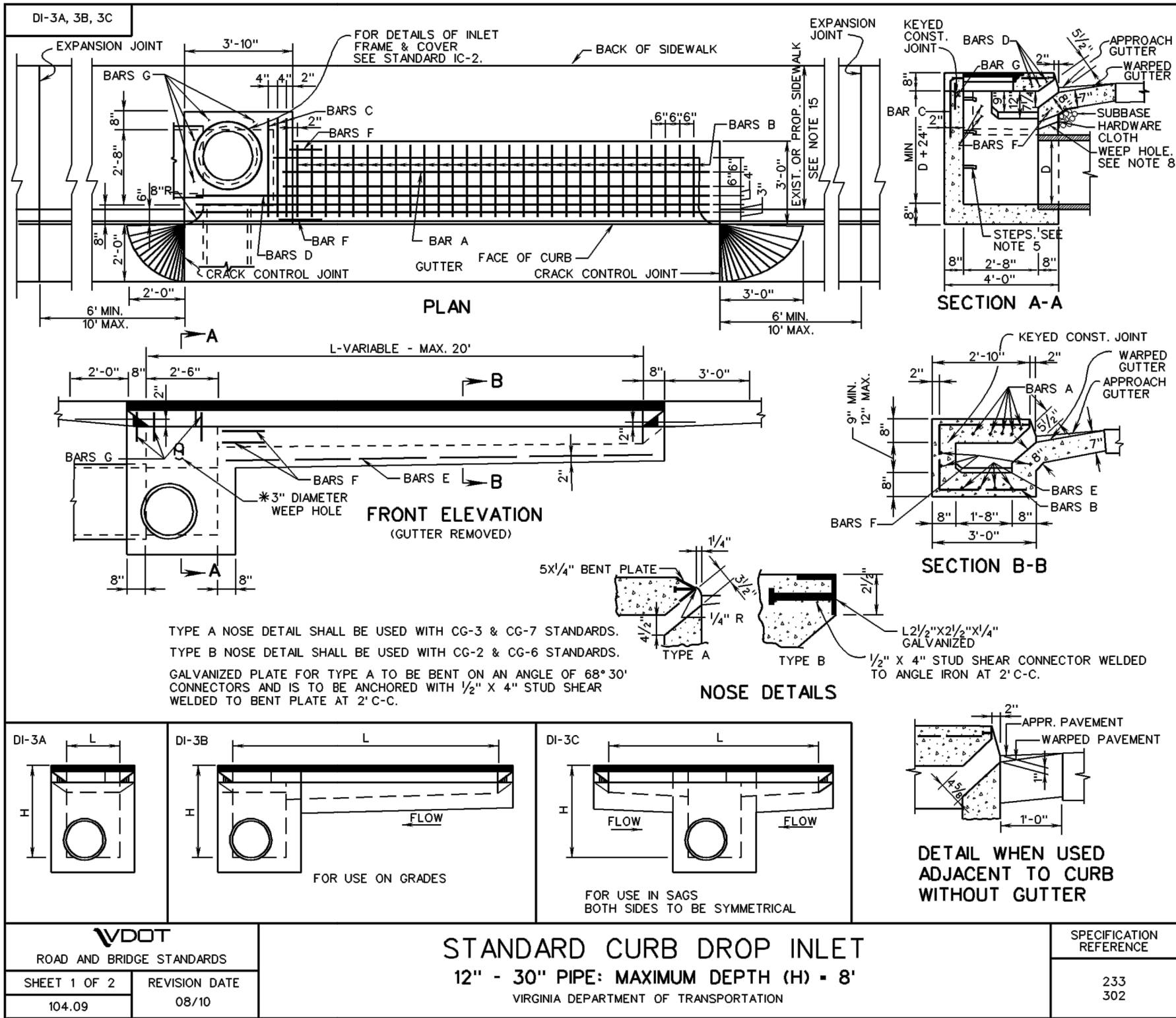
THE SEDIMENT SACK SHALL BE MADE FROM A WOVEN POLYPROPYLENE FABRIC WITH AN OIL ABSORBENT PILLOW INSERT. WHERE A HIGH OIL CONTENT IN THE STORM WATER SHALL OCCUR, AN OIL SEDIMENT SACK MADE COMPLETELY OF AN OIL ABSORPTION MATERIAL WITH A WOVEN PILLOW INSERT SHALL BE USED.

3 DROP INLET PROTECTION  
12.201 12.201 SCALE: N.T.S.

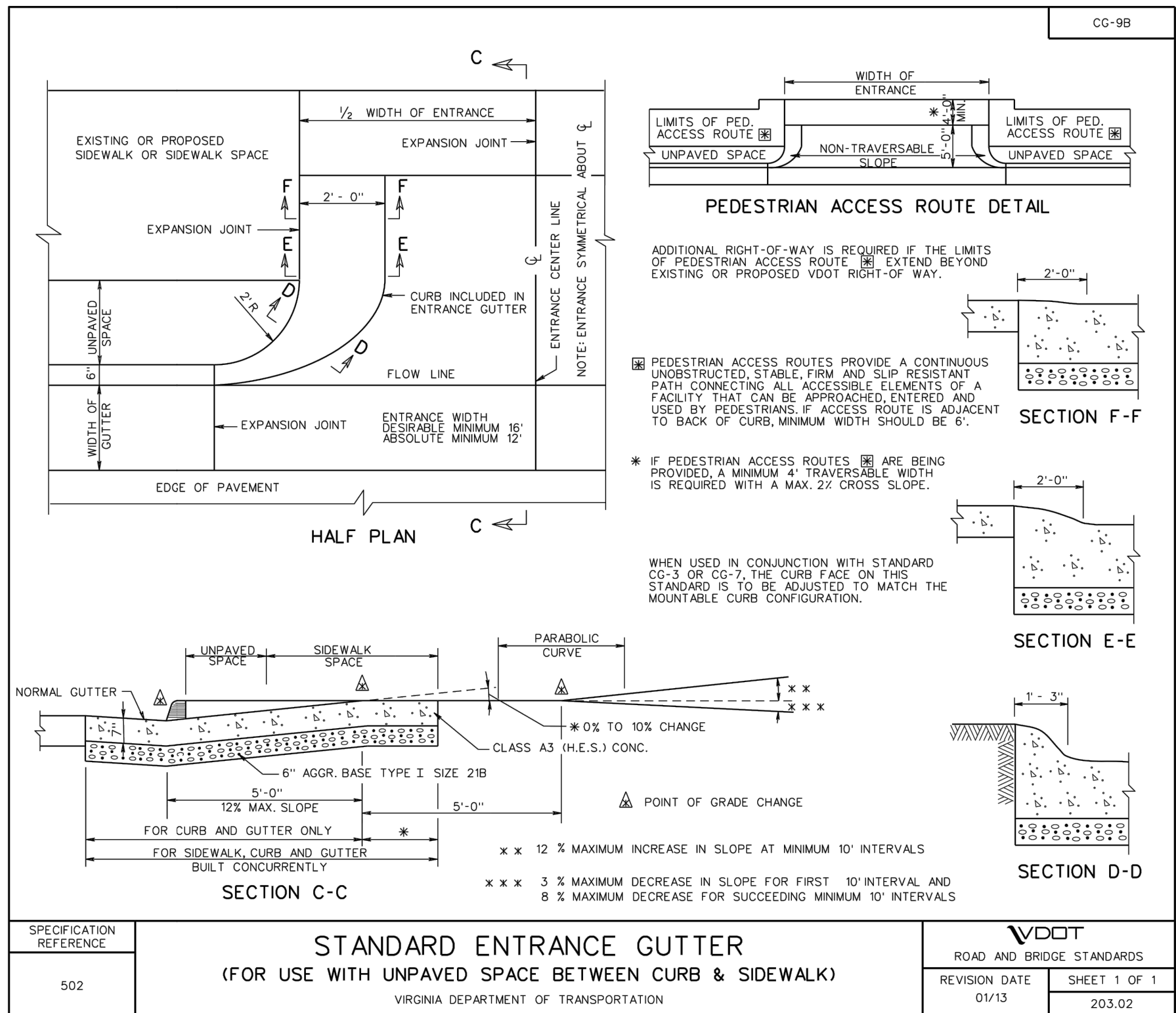
D:\H\Z\G\USERS\DAHLZ\GOOGLE DRIVE\02 PROJECTS\1166400 - ROANOKE SIDEWALKS\WORKING DRAWINGS\ROANOKE SIDEWALKS\SHEETS\CONSTRUCTION\C-C\12.202 TYPICAL CONSTRUCTION DETAILS.DWG LAYOUT: 13.202 TYPICAL CONSTRUCTION DETAILS 12/18/2014 2:55PM DIMSCALE: 1' = 20.0'



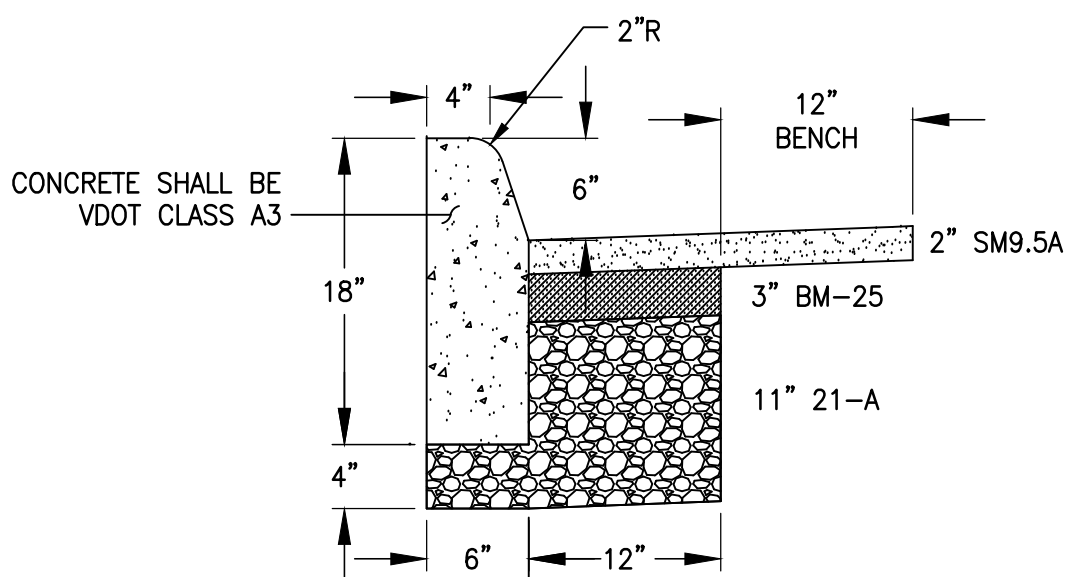
1  
12.200 12.202 SCALE: N.T.S.



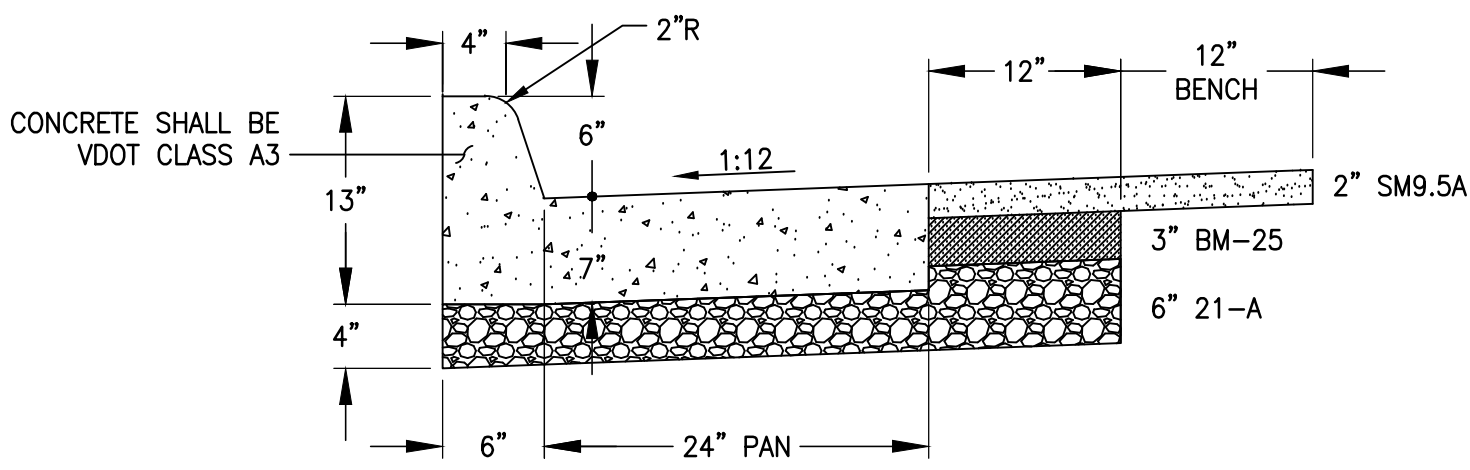
2  
12.200 12.202 SCALE: N.T.S.



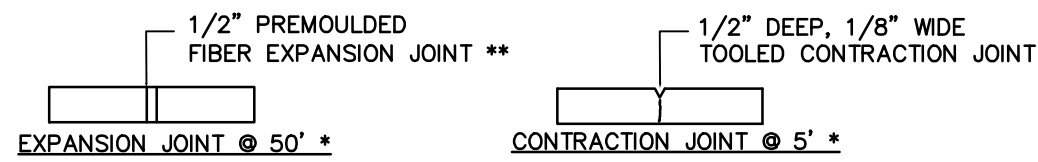
3  
12.200 12.202 SCALE: N.T.S.



4  
12.200 12.202 SCALE: 1" = 1'-0"



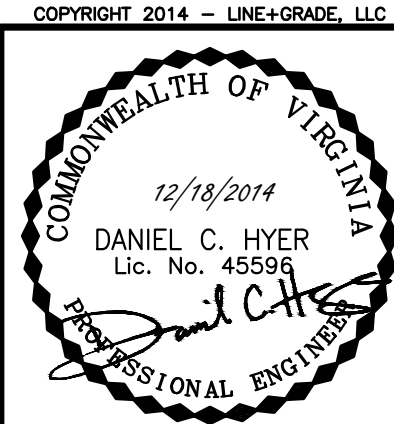
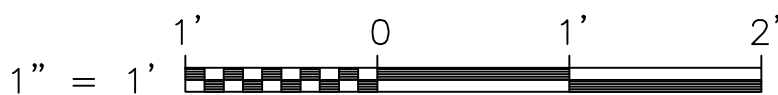
5  
12.200 12.202 SCALE: 1" = 1'-0"



\* UNLESS PLAN SHOWS OR SPECIFIES OTHERWISE.  
\*\* FIBERBOARD SHALL BE TRIMMED TO ALLOW FOR SEALANT. SEE PROJECT MANUAL SPECIFICATIONS FOR THE REQUIRED USE OF SEALANT.

6  
12.200 12.202 SCALE: 1" = 1'-0"

GRAPHIC SCALE:



REVISIONS		DATE	NO.

**CURB, GUTTER & SIDEWALK IMPROVEMENTS**

**CITY OF ROANOKE, VIRGINIA**

**SITE NO.12 & 19 — VIRGINIA AVENUE NW**

**TYPICAL CONSTRUCTION DETAILS**

**LINE+GRADE**

CIVIL ENGINEERING

418 EAST MAIN STREET  
CHARLOTTESVILLE, VA 22902  
www.line-grade.com

DRAWN: ZQD

CHECKED: DCH

APPROVED: DCH

DATE: DECEMBER 18, 2014

L+G PROJ. NO: 11664.00

SHEET NUMBER:

**12.202**

SHEET -- OF --



